SEQUENCE LISTING

(1)   GENERAL INFORMATION

    (i)   APPLICANT: ELAZAR RABBANI
                  JANNIS G. STAVRIANOPOULOS
                  JAMES J. DONEGAN
                  DAKAI LIU
                  NORMAN E. KELKER
                  DEAN L. ENGELHARDT

    (ii)   TITLE OF INVENTION: NOVEL PROPERTY EFFECTING AND/OR PROPERTY EXHIBITING COMPOSITIONS FOR THERAPEUTIC AND DIAGNOSTIC USE

    (iii)   NUMBER OF SEQUENCES: 42

    (iv)   CORRESPONDENCE ADDRESS:
        (A)   ADDRESSEE: ENZO THERAPEUTICS, INC.
        (B)   STREET: C/O ENZO BIOCHEM, INC.
                            527 MADISON AVENUE,
                            9TH FLOOR
        (C)   CITY: NEW YORK
        (D)   STATE: NY
        (E)   COUNTRY: USA
        (F)   ZIP: 10022

    (v)   COMPUTER READABLE FORM:
        (A)   MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB STORAGE
        (B)   COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES
        (C)   OPERATING SYSTEM: PC-DOS
        (D)   SOFTWARE: MICROSOFT WORD ___ - ASCII TEXT (DOS)

    (vi)   CURRENT APPLICATION DATA:
        (A)   APPLICATION NUMBER: US 08/978,632
        (B)   FILING DATE: 25-NOVEMBER-1997
        (C)   CLASSIFICATION: Not Yet Known

    (viii)   ATTORNEY/AGENT INFORMATION:
        (A)   NAME: FEDUS, RONALD C.
        (B)   REGISTRATION NUMBER: 32,567
        (C)   REFERENCE/DOCKET NUMBER: ENZ-53(C)

    (ix)   TELECOMUNICATION INFORMATION:
        (A)   TELEPHONE: (212) 583-0100
        (B)   TELEFAX: (212) 583-0150

(2)   INFORMATION FOR SEQ ID NO: 1

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 20 amino acids
        (B)   TYPE: amino acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: peptide

(iii)   HYPOTHETICAL: NO

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly
1   10   15

Met Ile Ala Gly
          20

(3)   INFORMATION FOR SEQ ID NO. 2:

       (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 20 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: double
          (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: DNA (genomic)

(iii)   HYPOTHETICAL: NO

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TGCTCTCTAA GGGTCTACTC
        20

(4)   INFORMATION FOR SEQ ID NO. 3:

       (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 15 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: double
          (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: DNA (genomic)

(iii)   HYPOTHETICAL: NO

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 3:

CTCTAAGGTA AATAT
        15

(5)   INFORMATION FOR SEQ ID NO. 4:

       (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 16 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: double
          (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: DNA (genomic)

(iii)   HYPOTHETICAL: NO

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 4:

TGTATTTTAG ATTCAA
          16

(6)   INFORMATION FOR SEQ ID NO. 5:

(i)   SEQUENCE CHARACTERISTICS:
(A)   LENGTH: 19 base pairs
(B)   TYPE: nucleic acid
(C)   STRANDEDNESS: double
(D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: DNA (genomic)

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 5:

TGCTCTCTAA GGTAAATAT
          19

(7)   INFORMATION FOR SEQ ID NO. 6:

(i)   SEQUENCE CHARACTERISTICS:
(A)   LENGTH: 19 base pairs
(B)   TYPE: nucleic acid
(C)   STRANDEDNESS: double
(D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: DNA (genomic)

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 6:

TGTATTTTAG GGTCTACTC
          19

(8)   INFORMATION FOR SEQ ID NO. 7:

(i)   SEQUENCE CHARACTERISTICS:
(A)   LENGTH: 19 base pairs
(B)   TYPE: nucleic acid
(C)   STRANDEDNESS: single
(D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: mRNA

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 7:

UGCUCUCUAA GGUAAAUAU
        19

(9)   INFORMATION FOR SEQ ID NO. 8:

        (i)   SEQUENCE CHARACTERISTICS:
                (A)   LENGTH: 19 base pairs
                (B)   TYPE: nucleic acid
                (C)   STRANDEDNESS: single
                (D)   TOPOLOGY: linear

        (ii)   MOLECULE TYPE: mRNA

        (iii)   HYPOTHETICAL: YES

        (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 8:

UGUAUUUUAG GGUCUACUC
        19

(10) INFORMATION FOR SEQ ID NO. 9:

        (i)   SEQUENCE CHARACTERISTICS:
                (A)   LENGTH: 20 base pairs
                (B)   TYPE: nucleic acid
                (C)   STRANDEDNESS: single
                (D)   TOPOLOGY: linear

        (ii)   MOLECULE TYPE: mRNA

        (iii)   HYPOTHETICAL: YES

        (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 9:

UGCUCUCUAA GGGUCUACUC
        20

(11) INFORMATION FOR SEQ ID NO. 10:

        (i)   SEQUENCE CHARACTERISTICS:
                (A)   LENGTH: 49 base pairs
                (B)   TYPE: nucleic acid
                (C)   STRANDEDNESS: single
                (D)   TOPOLOGY: linear

        (ii)   MOLECULE TYPE: other nucleic acid
                (A) Description: /desc = "oligonucleotide"

        (iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION :   SEQ ID NO: 10:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGC
        49

(12) INFORMATION FOR SEQ ID NO. 11:

            (i)   SEQUENCE CHARACTERISTICS:
                   (A)   LENGTH: 55 base pairs
                   (B)   TYPE: nucleic acid
                   (C)   STRANDEDNESS: single
                   (D)   TOPOLOGY: linear

            (ii)   MOLECULE TYPE: other nucleic acid
                    (A) Description: /desc = "oligonucleotide"

            (iii) HYPOTHETICAL: YES

            (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GACTAGTTGG TCTCGTCTCT TTTTTGGAGG AGTGTCGTTC TTAGCGATGT TAATC
        55

(13) INFORMATION FOR SEQ ID NO. 12:

            (i)   SEQUENCE CHARACTERISTICS:
                   (A)   LENGTH: 46 base pairs
                   (B)   TYPE: nucleic acid
                   (C)   STRANDEDNESS: single
                   (D)   TOPOLOGY: linear

            (ii)   MOLECULE TYPE: other nucleic acid
                    (A) Description: /desc = "oligonucleotide"

            (iii) HYPOTHETICAL: YES

            (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC
        46

(14) INFORMATION FOR SEQ ID NO. 13:

            (i)   SEQUENCE CHARACTERISTICS:
                   (A)   LENGTH: 33 base pairs
                   (B)   TYPE: nucleic acid
                   (C)   STRANDEDNESS: single
                   (D)   TOPOLOGY: linear

            (ii)   MOLECULE TYPE: other nucleic acid
                    (A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GACTAGTGGT CTCCCCTTAG AGAGCATGTC AGC
    33

(15) INFORMATION FOR SEQ ID NO. 14:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 33 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGAATTCGGT CTCGGGTCTA CTCGGTGGCG AGG
    33

(16) INFORMATION FOR SEQ ID NO. 15:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 27 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GACTAGTCGT TACGCGAACG CAAAGTC
    27

(17)   INFORMATION FOR SEQ ID NO. 16:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 36 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGAATTCGTC TCTAAGGTAA ATATAAAATT TTTAAG
36

(18)   INFORMATION FOR SEQ ID NO. 17:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 40 base pairs
        (B)   TYPE: nucleic acid
        (C).   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GACTAGTCGT CTCTGACCCT AAAATACACA AACAATTAGA
40

(19)   INFORMATION FOR SEQ ID NO. 18:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 92 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: double
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: DNA (genomic)

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGCT
AAGAACGACA   60

CTCCTCCAAA AAAGAGACGA GACCAACTAG TC
92

(20)   INFORMATION FOR SEQ ID NO. 19:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 46 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: double
        (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: DNA (genomic)

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 19:

GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC
    46

(21)   INFORMATION FOR SEQ ID NO. 20:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 106 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: double
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: DNA (genomic)

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGCT
AAGAACGACA   60

CTCCTCCAAA AAAGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC
    106

(22)   INFORMATION FOR SEQ ID NO. 21:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 50 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: double
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: DNA (genomic)

    (iii)   HYPOTHETICAL: NO

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 21:

ATGGACACGA TTAACATCGC TAAGAACGAC TTCTCTGACA TCGAACTGGC
    50

(23)   INFORMATION FOR SEQ ID NO. 22:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 77 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: double
        (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: DNA (genomic)

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 22:

ATGGACACGA TTAACATCGC TAAGAACGAC ACTCCTCCAA AAAAGAGAAA
GGTAAAATTC   60

TCTGACATCG AACTGGC
        77

(24)   INFORMATION FOR SEQ ID NO. 23:

            (i)   SEQUENCE CHARACTERISTICS:
                     (A)   LENGTH: 69 base pairs
                     (B)   TYPE: nucleic acid
                     (C)   STRANDEDNESS: single
                     (D)   TOPOLOGY: linear

            (ii)   MOLECULE TYPE: other nucleic acid
                     (A) Description: /desc = "oligonucleotide"

            (iii)   HYPOTHETICAL: YES

            (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GATCATTAGA CCAGATCTGA GCCTGGGAGC TCTCTGGCTA ACTAGGGAAC
CCACTGCTTA   60

AGCCTCAAG
        69

(25)   INFORMATION FOR SEQ ID NO. 24:

            (i)   SEQUENCE CHARACTERISTICS:
                     (A)   LENGTH: 69 base pairs
                     (B)   TYPE: nucleic acid
                     (C)   STRANDEDNESS: single
                     (D)   TOPOLOGY: linear

            (ii)   MOLECULE TYPE: other nucleic acid
                     (A) Description: /desc = "oligonucleotide"

            (iii)   HYPOTHETICAL: YES

            (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GATCCTTGAG GCTTAAGCAG TGGGTTCCCT AGTTAGCCAG AGAGCTCCCA
GGCTCAGATC   60

TGGTCTAAT
        69

(26)   INFORMATION FOR SEQ ID NO. 25:

       (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 61 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: single
          (D)   TOPOLOGY: linear

       (ii)   MOLECULE TYPE: other nucleic acid
          (A) Description: /desc = "oligonucleotide"

       (iii)   HYPOTHETICAL: YES

       (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GATCACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG
ACCTCCTCAA   60

G
    61

(27)   INFORMATION FOR SEQ ID NO. 26:

       (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 61 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: single
          (D)   TOPOLOGY: linear

       (ii)   MOLECULE TYPE: other nucleic acid
          (A) Description: /desc = "oligonucleotide"

       (iii)   HYPOTHETICAL: YES

       (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 26:

GATCCTTGAG GAGGTCTTCG TCGCTGTCTC CGCTTCTTCC TGCCATAGGA
GAGCCTAAGG   60

T
    61

(28)   INFORMATION FOR SEQ ID NO. 27:

       (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 62 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: single
          (D)   TOPOLOGY: linear

       (ii)   MOLECULE TYPE: other nucleic acid
          (A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GATCATAGTG AATAGAGTTA GGCAGGGATA CTCACCATTA TCGTTTCAGA
CCCACCTCCC   60

AG
          62

(29)   INFORMATION FOR SEQ ID NO. 28:

          (i)   SEQUENCE CHARACTERISTICS:
                  (A)   LENGTH: 62 base pairs
                  (B)   TYPE: nucleic acid
                  (C)   STRANDEDNESS: single
                  (D)   TOPOLOGY: linear

          (ii)   MOLECULE TYPE: other nucleic acid
                   (A) Description: /desc = "oligonucleotide"

          (iii)   HYPOTHETICAL: YES

          (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GATCCTGGGA GGTGGGTCTG AAACGATAAT GGTGAGTATC CCTGCCTAAC
TCTATTCACT   60

AT
          62

(30)   INFORMATION FOR SEQ ID NO. 29:

          (i)   SEQUENCE CHARACTERISTICS:
                  (A)   LENGTH: 30 base pairs
                  (B)   TYPE: nucleic acid
                  (C)   STRANDEDNESS: single
                  (D)   TOPOLOGY: linear

          (ii)   MOLECULE TYPE: other nucleic acid
                   (A) Description: /desc = "oligonucleotide"

          (iii)   HYPOTHETICAL: YES

          (iv)   ORIGINAL SOURCE:
                   (A) ORGANISM: TER-1

          (x)   SEQUENCE DESCRIPTION: SEQ ID NO: 29:

AATCTAGAGC TAACAAAGCC CGAAAGGAAG
          30

(31)   INFORMATION FOR SEQ ID NO. 30:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 28 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 30:

TTCTGCAGAT ATAGTTCCTC CTTTCAGC
    28

(32)   INFORMATION FOR SEQ ID NO. 31:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 70 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 31:

TCGAGCCATG GCTTAAGGAT CCGTACGTCC GGAGCTAGCG GGCCCATCGA
TACTAGTTAA   60

ATGCAGATCT
    70

(33)   INFORMATION FOR SEQ ID NO. 32:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 70 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 32:

CTAGAGATCT GCATTTAACT AGTATCGATG GGCCCGCTAG CTCCGGACGT
ACGGATCCTT   60

AAGCCATGGC
          70

(34)   INFORMATION FOR SEQ ID NO. 33:

      (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 29 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: double
          (D)   TOPOLOGY: linear

      (ii)   MOLECULE TYPE: other nucleic acid
          (A) Description: /desc = "oligonucleotide"

      (iii)   HYPOTHETICAL: YES

      (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 33:

CATGAAATTA ATTCGACTCA CTATACGGA
          29

(35)   INFORMATION FOR SEQ ID NO. 34:

      (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 29 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: double
          (D)   TOPOLOGY: linear

      (ii)   MOLECULE TYPE: other nucleic acid
          (A) Description: /desc = "oligonucleotide"

      (iii)   HYPOTHETICAL: YES

      (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 34:

TTTAATTAAG CTGAGTGATA TGCCTCTAG
          29

(36)   INFORMATION FOR SEQ ID NO. 35:

      (i)   SEQUENCE CHARACTERISTICS:
          (A)   LENGTH: 72 base pairs
          (B)   TYPE: nucleic acid
          (C)   STRANDEDNESS: single
          (D)   TOPOLOGY: linear

      (ii)   MOLECULE TYPE: other nucleic acid
          (A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 35:

GATCCGGATT GAGGCTTAAG CAGTGGGTTC CCTAGTTAGC CAGAGAGCTC
CCAGGCTCAG   60

ATCTGGTCTA AT
          72

(37)   INFORMATION FOR SEQ ID NO. 36:

(i)   SEQUENCE CHARACTERISTICS:
(A)   LENGTH: 72 base pairs
(B)   TYPE: nucleic acid
(C)   STRANDEDNESS: single
(D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: other nucleic acid
(A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 36:

CCGGATTAGA CCAGATCTGA GCCTGGGAGC TCTCTGGCTA ACTAGGGAAC
CCACTGCTTA   60

AGCCTCAATC CG
          72

(38)   INFORMATION FOR SEQ ID NO. 37:

(i)   SEQUENCE CHARACTERISTICS:
(A)   LENGTH: 66 base pairs
(B)   TYPE: nucleic acid
(C)   STRANDEDNESS: single
(D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: other nucleic acid
(A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 37:

GATCCGGACC TTGAGGAGGT CTTCGTCGCT GTCTCCGCTT CTTCCTGCCA
TAGGAGAGCC   60

TAAGGT
     66

(39)   INFORMATION FOR SEQ ID NO. 38:

(i)   SEQUENCE CHARACTERISTICS:
     (A)   LENGTH: 66 base pairs
     (B)   TYPE: nucleic acid
     (C)   STRANDEDNESS: single
     (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: other nucleic acid
     (A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 38:

CCGGACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG
ACCTCCTCAA   60

GGTCCG
    66

(40)   INFORMATION FOR SEQ ID NO. 39:

(i)   SEQUENCE CHARACTERISTICS:
     (A)   LENGTH: 65 base pairs
     (B)   TYPE: nucleic acid
     (C)   STRANDEDNESS: single
     (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: other nucleic acid
     (A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 39:

GATCCGGATG GGAGGTGGGT CTGAAACGAT AATGGTGAGT ATCCCTGCCT
AACTCTATTC   60

ACTAT
   65

(41)   INFORMATION FOR SEQ ID NO. 40:

(i)   SEQUENCE CHARACTERISTICS:
     (A)   LENGTH: 65 base pairs
     (B)   TYPE: nucleic acid
     (C)   STRANDEDNESS: single
     (D)   TOPOLOGY: linear

(ii)   MOLECULE TYPE: other nucleic acid
     (A) Description: /desc = "oligonucleotide"

(iii)   HYPOTHETICAL: YES

(ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 40:

CCGGATAGTG AATAGAGTTA GGCAGGGATA CTCACCATTA TCGTTTCAGA
CCCACCTCCC   60

ATCCG
    65

(42)   INFORMATION FOR SEQ ID NO. 41:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 67 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GATCAGCATG CCTGCAGGTC GACTCTAGAC CCGGGTACCG AGCTCGCCCT
ATAGTGAGTC   60

GTATTAT
    67

(43)   INFORMATION FOR SEQ ID NO. 42:

    (i)   SEQUENCE CHARACTERISTICS:
        (A)   LENGTH: 67 base pairs
        (B)   TYPE: nucleic acid
        (C)   STRANDEDNESS: single
        (D)   TOPOLOGY: linear

    (ii)   MOLECULE TYPE: other nucleic acid
        (A) Description: /desc = "oligonucleotide"

    (iii)   HYPOTHETICAL: YES

    (ix)   SEQUENCE DESCRIPTION: SEQ ID NO: 42:

CCGGATAATA CGACTCACTA TAGGGCGAGC TCGGTACCCG GGTCTAGAGT
CGACCTGCAG   60

GCATGCT
    67